



AVIT
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY



VINAYAKA MISSION'S
RESEARCH FOUNDATION
(Deemed to be University under section 3 of the UGC Act 1956)



Accredited by NAAC



Approved by AICTE

DEPARTMENT OF MECHANICAL ENGINEERING

NAME OF THE LAB: DYNAMICS AND METROLOGY LAB

LAB CODE: 17MECC86

:

Sl.No	Name of the Experiment	YouTube video link
1.	To perform an experiment on Watt Governor to prepare performance characteristic curves and to find stability and sensitivity	https://youtube.com/2tFMi3bVuEo
2.	To perform an experiment on Porter Governor to prepare performance characteristic curves and to find stability and sensitivity	https://youtube.com/2tFMi3bVuEo
3.	To analyse the motion of a motorized gyroscope when the couple is applied along its spin axis and determine gyroscopic couple-I	https://youtube.com/zLunA2Y_AGU https://youtube.com/Jhg0UDUeUls
4.	Determine the Moment of Inertia by compound pendulum and tri filar suspension	https://youtu.be/nG9bz4r4L- https://youtu.be/CMiisLjSFf0 https://youtu.be/LMjTnQCQMb0
5.	To determine the frequency of undamped free vibration and damped forced vibration of an equivalent spring mass system	https://youtu.be/3LHfjjoWAYI
6.	To determine whirling speed of shaft theoretically and experimentally	https://youtu.be/rzqfBHw3kqA
7.	Angular Measurements using Bevel Protector and Sine Bar	https://youtu.be/JbJ9NoAxJGs https://youtu.be/Z2YmV4Z99IM
8.	Flow Measurement using a Rotameter	https://youtu.be/uFxz25qVeOw https://youtu.be/YdZDDj33ZK0
9.	Fundamental dimension measurement of a gear using a contour projector.	https://youtu.be/A0RiJ7XSDew
10.	Measurement of Displacement using Linear Variable Differential Transducer	https://youtu.be/PSVutAArR_A
11.	Measurement of speed of Motor using Stroboscope	https://youtu.be/RSECSk7qsPw
12.	Measurement of cutting forces using Lathe Tool Dynamometer	https://youtu.be/Pk3dJM-rLZM